## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Original) Use of single-stranded RNA molecule having a length from 14-50 nucleotides wherein at least the 14-20 5'most nucleotides are substantially complementary to a target transcript for the manufacture an agent for inhibiting the expression of said target transcript.
- 2. (Original) The use of claim 1 wherein said expression is inhibited by RNA-interference.
- 3. (Currently Amended) The use of claim 1 er 2 wherein said RNA molecule has a length from 15-29 nucleotides.
- 4. (Currently Amended) The use of any one of claims 1 to 3 claim 1, wherein said RNA molecule has a free 5'hydroxyl moiety or a moiety selected from phosphate groups or analogues thereof.
- 5. (Currently Amended) The use of any one of claims 1 to 3 claim 1, wherein said RNA molecule has 5'-moiety selected from 5'-monophosphate ((HO)<sub>2</sub>(O)P-O-5'), 5'-diphosphate ((HO)<sub>2</sub>(O)P-O-P(HO)(O)-O-5'), 5'triphophate

 $((HO)_2(O)P-O-(HO)(O)P-O-P(HO)(O)-O-5')$ , 5'guanosine cap (7-methylated or non-methylated) (7m-G-O-5'-(HO)(O)P-O-(HO)(O)P-O-P(HO)(O)-O-5'), 5'-adenosine cap (Appp), and any modified or unmodified nucleotide cap structure (N-O-5'(HO)(O)P-O-(HO)(O)P-O-P(HO)(O)-O-5'), 5'-monothiophosphate (phosphorothioate; (HO)\_2(S)P-O-5'), 5'-monothiophosphate (phosphorothioate; (HO)(HS)(S)P-O-5'), 5'PHOSPHOROTHIOLATE ((HO)\_2(O)P-S-5'); any additional combination of oxgen/sulfur replaced monophosphate, diphosphate and triphosphates (e.g. 5'-alpha-thiotriphosphate, 5'-gamma-thiotriphosphate, etc.), 5'-phosphoramidates ((HO)\_2(O)P-NH-5', (HO)(NH\_2)(O)P-O-5'), 5'alkylphosphonates (R=alkyl=methyl, ethyl, isopropyl, propyl, etc., e.g. RP(OH)(O)-O-5'-, (OH)\_2(O)P-5'-CH\_2-), 5'alkyletherphosphonates (R=alkylether=methoxymethyl (MeOCH\_2-), ethoxymethyl, etc., e.g. RP(OH)(O)-O-5'-).

- 6. (Currently Amended) The use of any one of claims 1 to 5 claim 1, wherein said RNA molecule is completely complementary to said target transcript optionally with exception of nucleotides that extend beyond position 20 (counted from the 5'terminus).
- 7. (Currently Amended) The use of any one of claims 1 to 6 claim 1, wherein said RNA molecule comprises at least one modified nucleotide analogue.

- 8. (Original) The use of claim 7, wherein the modified nucleotide analogues are selected from sugar-backbone- and nucleobase-modified ribonucleotides and combinations thereof.
- 9. (Currently Amended) The use of any one of claims 1 to 8 claim 1 for the inhibition of target gene expression in vitro.
- 10. (Currently Amended) The use of any one of claims 1 to 8 claim 1 for the inhibition of target gene expression in vivo.
- 11. (Currently Amended) The use of any one of claims 1 to 10 claim 1, wherein said RNA molecule is formulated as a pharmaceutical composition which contains a pharmaceutically acceptable carrier.
- 12. (Original) The use of claim 11, wherein said carrier is selected from cationic liposomes and cationic lipid formulations.
- 13. (Currently Amended) The use of any one of claims 1 to 12 claim 1, wherein said RNA molecule is associated with biodegradable polymers or microparticles.
- 14. (Original) The use of claim 13, wherein said association comprises a covalent coupling.

- 15. (Original) The use of claim 14, wherein said covalent coupling occurs via the 3'-terminus of the RNA molecule.
- 16. (Currently Amended) The use of any one of claims 10 to 15 claim 10 for diagnostic applications.
- 17. (Currently Amended) The use of any one of claims 10-to 15 claim 10 for therapeutic applications.
- 18. (Original) The use of claim 17 for the prevention or treatment of disease associated with overexpression of at least one target transcript.
- 19. (Original) The use of claim 18, wherein the diseases are selected from tumor diseases, inflammatory diseases, infectious diseases, e.g. viral infections, degenerative diseases and autoimmune diseases.
- 20. (Original) A pharmaceutical composition for inhibiting the expression of a target transcript by RNAi comprising an active agent a single-stranded RNA molecule having a length from 14-50 nucleotides, wherein at least the 14-20 5' most nucleotides are substantially complementary to said target transcript.
- 21. (Original) A method for the prevention or treatment of disease associated with overexpression of at least one target gene comprising administering a subject in

need thereof a single-stranded RNA molecule having a length from 14-50 nucleotides, wherein at least the 14-20 5' most nucleotides are substantially complementary to a transcript of said target gene in an amount which is therapeutically effective RNAi.

- 22. (Original) Purified human RISC having a molecular weight of from up to about 150-160 kDa.
- 23. (Original) The RISC of claim 22 comprising at least one member of the Argonaute family of proteins.
- 24. (Currently Amended) The RISC of claim 22 or 23 containing elF2C1 and/or elFC2 and optionally at least one elFC3, elFC4, HILI and HIWI.
- 25. (Currently Amended) The RISC of any one of claims 22-24 claim 22, further containing an RNA component.
- 26. (Original) A host cell or non-human host organism capable of overexpressing RISC.
- 27. (Original) A method of enhancing RNAi in a cell or an organism comprising causing said cell or organism to overexpress at least one component of RISC.

- 28. (Original) The method of claim 27 for screening applications.
- 29. (Original) The method of claim 27 for therapeutic applications.
- 30. (Original) An antisense siRNA precursor molecule in the form of a hairpin stem-loop structure comprising 19 to 29 base pairs in stem, wherein at least 14 nucleotides in the stem are substantially complementary to a target transcript.
- 31. (Original) The siRNA precursor molecule of claim 30 having a 3' overhanging end.